Garnet
Garnet Global Training Center

GGT-EI-133

Electrical, Instrumentation & Control

Building Electrical Systems Design

تصميم الأنظمة الكهربائية للمباني

Duration	Language	Formats	Hours	Level
5 or 10 days	**English or Arabic**	**Classroom, online, in-house**	**35 / 70**	**Intermediate (practitioner)**

Overview

Building Electrical Systems Design turns established good practice into step-by-step methods that participants rehearse in exercises and then apply at work. Power, protection and automation skills for plants, utilities and smart infrastructure. It runs as a 5-day or 10-day program in English or Arabic, in classrooms in Dubai, Riyadh, Cairo, London, Istanbul and other cities, or live online, and can be delivered in-house.

What you will be able to do

- Apply the methods and standards of Building Electrical Systems Design to real tasks.
- Share good practice with your team.
- Use the right tools, checks and calculations step by step.
- Diagnose common problems and identify root causes.
- Interpret data and results correctly and act on them.

Who should attend

Electrical, instrumentation and control engineers, technicians and maintenance leads. Practitioners with one to five years of experience benefit most.

Key topics

- Power system fundamentals and studies
- Protection, earthing and safety
- Control system architecture
- Field devices and loop checking
- IEC and IEEE standards
- Troubleshooting with real fault records

Formats and fees

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house	**Quotation per group**

Fees per participant, excluding VAT.

Register or ask

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Email: info@garnettrainings.com

Training: training@garnettrainings.com

Web: garnettrainings.com

Sharjah Publishing City Free Zone, Sharjah, UAE

Certificate

Participants who attend at least 90% of sessions and complete the final assessment receive a certificate of completion stating 35 contact hours (5-day) or 70 contact hours (10-day).

5-day outline

Day 1 Building Electrical Systems Design: principles and standards

- IEC and IEEE standards
- Regional and international case studies

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Control system architecture
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- Measurement and reporting

10-day outline

Day 1 Building Electrical Systems Design: principles and standards

- IEC and IEEE standards
- Regional and international case studies

Day 2 Methods and tools in practice

- Troubleshooting with real fault records
- Power system fundamentals and studies

Day 3 Diagnosis and problem solving

- Protection, earthing and safety
- Checklists and templates to take away

Day 4 Quality, safety and documentation

- Control system architecture
- Group discussion and peer review

Day 5 Workshop, assessment and action plan

- Field devices and loop checking
- Measurement and reporting

Day 6 Advanced techniques and specialist practice

- Complex cases in depth
- Hands-on workshop on a workplace challenge

Day 7 Digital tools, data and automation

- Analysis tools and software
- Using AI in this field

Day 8 Benchmarking against international practice

- Global performance benchmarks
- Common mistakes and how to avoid them

Day 9 Capstone project

- Analyse a real challenge from your organisation
- Build the solution and implementation plan

Day 10 Presentations, final assessment and certificates

- Project presentations and review
- Final exam and certificate award

Schedule 2027–2030

Dates	Format	City	Language	Fee (USD)
8–12 Mar 2027	5-day online	Live online	Arabic	2,950
17–21 May 2027	5-day classroom	Dubai	Arabic	4,750
13–17 Jun 2027	5-day classroom	Muscat	Arabic	4,750
17–28 Oct 2027	10-day classroom	Jeddah	English	8,950
20–31 Mar 2028	10-day classroom	Casablanca	Arabic	8,950
4–8 Jun 2028	5-day classroom	Cairo	English	4,750
20–24 Aug 2028	5-day classroom	Kuwait City	Arabic	4,750
18–29 Dec 2028	10-day online	Live online	English	5,450
12–16 Feb 2029	5-day online	Live online	Arabic	2,950

Dates	Format	City	Language	Fee (USD)
14–18 Oct 2029	5-day classroom	Riyadh	English	4,750
12–23 Nov 2029	10-day classroom	Dubai	Arabic	8,950
9–13 Dec 2029	5-day classroom	Doha	Arabic	4,750
17–28 Mar 2030	10-day classroom	Manama	English	8,950
5–9 Aug 2030	5-day classroom	Dubai	Arabic	4,750
17–21 Nov 2030	5-day classroom	Cairo	Arabic	4,750
2–13 Dec 2030	10-day online	Live online	English	5,450

Customised and in-house versions of this course are available on request. garnettrainings.com/en/customise/